



Zytel® 7301L ECO-R 331 BK300

NYLON RESIN

Zytel® 7301L ECO-R 331 BK300 is an Unreinforced Polyamide 6

Zytel® 7301L ECO-R 331 BK300 incorporates a minimum of 30% ocean-bound post-consumer recycled content by weight in the finished product. The recycled content source is from used fishnets.

Product information

Resin Identification	PA6 >PA6<		ISO 1043 ISO 11469
Part Marking Code			
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	1.1/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.5/-	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	3000/1400	MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	65/45	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	36/>50	%	ISO 527-1/-2
Flexural modulus	2900/1200		ISO 178
Flexural strength	99/40	MPa	ISO 178
Charpy notched impact strength, 23°C	4.6/16	kJ/m²	ISO 179/1eA
Poisson's ratio	0.37/0.43		
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	220/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	60/*	°C	ISO 75-1/-2
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.2/*	%	Sim. to ISO 62
Density	1130/-	kg/m³	ISO 1183
Injection			
Drying Recommended	Ve	es	
Drying Temperature	80 °C		
Drying Time, Dehumidified Dryer	2-4 h		
Processing Moisture Content	≤0.2 %		
Melt Temperature Optimum	270 °C		
Min. melt temperature	260 °C		
Max. melt temperature	280 °C		
Mold Temperature Optimum	7	70 °C	

Printed: 2025-05-29 Page: 1 of 2

50 °C

Revised: 2025-05-26 Source: Celanese Materials Database

Min. mould temperature

Max. mould temperature

(+) 18816996168 Ponciplastics.com



Zytel® 7301L ECO-R 331 BK300

Characteristics

Processing Injection Moulding

Delivery form Pellets

Sustainability Recycled Content

Printed: 2025-05-29 Page: 2 of 2

Revised: 2025-05-26 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any e

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.